MEMORANDUM

TO:

County Council

J NB

FROM:

Kathleen Boucher, Senior Legislative Attorney

SUBJECT:

Introduction: Bill 17-06, Buildings - Energy Efficiency and Environmental

Design

Bill 17-06, Buildings – Energy Efficiency and Environmental Design, sponsored by Council President Leventhal and Councilmember Praisner is scheduled to be introduced on April 25, 2006. A public hearing is tentatively scheduled for June 20, 2006 at 1:30 p.m.

The bill: (1) requires all new non-residential buildings and multi-family residential buildings that are at least 10,000 square feet in size ("covered buildings") to obtain 20 LEED points; and (2) creates an incentive for these types of buildings to obtain at least 24 LEED points. With regard to the latter element, the bill makes the owners of buildings that obtain at least 24 LEED points eligible to obtain an energy tax rebate under the Clean Energy Rewards Program.

The LEED (Leadership in Energy and Environmental Design) rating system was developed by the United States Green Buildings Council. It identifies criteria that positively impact the energy and environmental characteristics of a building, including sustainability of a site, water efficiency, energy efficiency, materials and resources, and indoor environmental quality.

The bill requires the Department of Permitting Services to approve a Green Building Plan that complies with the bill as a condition of a building permit issued to any covered building. The bill is the first component of a 3-part legislative proposal. The second component is a subdivision regulation amendment (SRA) that requires the Planning Board to approve a Green Building Plan that complies with the bill as a condition of preliminary subdivision plan approval for any project that includes a covered building. The third component is a zoning text amendment (ZTA) that requires the Planning Board to approve a Green Building Plan that complies with the bill as a condition of site plan approval for any project that includes a covered building. The SRA and ZTA are expected to be introduced on May 2.

This packet contains:	Circle #
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Bill No.		<u> 17-06</u>	
Concerning: _	Buildings	_	Energy
Efficiency and	Environmen	tal Des	ign
Revised: A	oril 19, 2006	Draft I	No. 1
Introduced: _	April 25, 20	06	
Expires:	October 25	2007	
Enacted:			
Executive:			
Effective:			
Sunset Date:	None		
Ch La	aws of Mont (<u>``</u>	

COUNTY COUNCIL FOR MONTGOMERY COUNTY, MARYLAND

By: Council President Leventhal and Councilmember Praisner

AN ACT to:

- (1) require certain non-residential buildings and multi-family residential buildings to achieve certain standards relating to energy efficiency and environmental design;
- (2) require certain applicants for preliminary subdivision plan approval, site plan approval, or a building permit to submit certain plans relating to energy efficiency and environmental design to the Department of Permitting Services for approval;
- require the Department of Permitting Services to approve an energy efficiency and environmental design plan as a condition of certain building permits;
- (4) make certain building owners who comply with certain standards relating to energy efficiency and environmental design eligible to receive certain incentive payments;
- (5) define certain terms; and
- (6) generally amend the law relating to the construction of buildings, development review, building permits, energy, and environmental design.

By amending

Montgomery County Code Chapter 8, Buildings Section 8-26

By adding

Montgomery County Code Chapter 8, Buildings Article VII, Energy Efficiency and Environmental Design

By amending

Montgomery County Code Chapter 18A, Energy Policy Section 18A-11



Boldface
Underlining
[Single boldface brackets]
Double underlining
[[Double boldface brackets]]

* * * *

Heading or defined term.

Added to existing law by original bill.

Deleted from existing law by original bill.

Added by amendment.

Deleted from existing law or the bill by amendment.

Existing law unaffected by bill.

The County Council for Montgomery County, Maryland approves the following Act:

1		Sec. 1. Section 8-26 is amended as follows:
2	8-26.	Conditions of permit.
3		* * * .
4		(c) Compliance with permit. All work [shall] must conform to the approved
5		application and plans for which the permit has been issued, including
6		any Green Building Plan approved under Article VII, and any
7		approved amendments [thereto] to the permit.
8		* * *
9		Sec. 2. Chapter 8 is amended by adding Article VII. Energy
10	Effici	ency and Environmental Design:
11		Article VII. Energy Efficiency and Environmental Design
12	<u>8-46.</u>	Short Title.
13		This Article may be cited as the Montgomery County Green Buildings Law.
14	<u>8-47.</u>	Policy.
15		This Article is intended to protect the public health and welfare by requiring an
16		integrated approach to planning, design, construction, and operation of a
17		covered building and its surrounding landscape that helps mitigate the
18		environmental, economic, and social impacts of the building so that it is
19		energy efficient, sustainable, secure, safe, cost-effective, accessible, functional,
20		productive, and esthetically attractive.
21	<u>8-48.</u>	<u>Definitions.</u>
22		In this Article the following words have the meanings indicated:
23		"Covered building" means a non-residential building or multi-family
24		residential building that is at least 10,000 square feet in size.
25		"Green Buildings Council" means the United States Green Buildings
26		Council, an organization that has developed and published the LEED rating
27		system to measure the energy and environmental performance of a building.

28	<u>"Green bu</u>	ilding plan" means a:
29	<u>(1)</u>	LEED scorecard showing the LEED points that a building wil
30		obtain; and
31	(2)	written explanation of how the building will obtain the LEED
32	•	points identified in the LEED scorecard.
33	"Green bui	ilding concept plan" means a:
34	(1)	LEED scorecard showing the LEED points that a building will
35		obtain as a result of site location and stormwater management;
36		<u>and</u>
37	<u>(2)</u>	written explanation of how the building will obtain the LEED
38		points identified in the LEED scorecard.
39	"LEED ac	credited professional" means an individual who has passed the
40	LEED Prof	essional Accreditation Exam administered by the Green Buildings
41	Council.	
42	"LEED-NO	Version 2.2" means the Leadership in Energy and Environmental
43	Design (LE	ED) Rating System for New Construction and Major Renovation,
44	Version 2.2	2, developed by the Green Buildings Council, including the
45	LEED-NC	Version 2.2 Checklist and LEED-NC Version 2.2 Reference Guide.
46	"LEED rat	ing system" means:
47	(1)	LEED-NC Version 2.2; or
48	<u>(2)</u>	if approved by the County Executive, a successor to LEED-NC
49		Version 2.2 developed by the Green Buildings Council.
50		recard" means the checklist developed by the Green Buildings
51		the purpose of calculating a score on the LEED rating system.
52		ily residential building" means a building that includes 4 or more
53	dwelling uni	<u>its.</u>

54		Non	<u>ı-resid</u>	<u>ential building" means a building not used as a dwelling, </u>
55		<u>inclu</u>	ding:	
56			<u>(1)</u>	office buildings, including general offices, medical offices, office
57				parks, research parks, townhouse offices, government offices, and
58		-		other buildings with similar uses;
59			<u>(2)</u>	industrial buildings, including truck terminals, warehouses, light
60				or heavy manufacturing facilities, industrial parks, and other
61				buildings with similar uses;
62			<u>(3)</u>	retail buildings, including stores, shopping centers, restaurants,
63				vehicles sales or service facilities, banks, theaters, post offices,
64				and other buildings with similar uses;
65			<u>(4)</u>	places of worship;
66			<u>(5)</u>	private elementary, secondary, or post-secondary schools; and
67			<u>(6)</u>	hotels, motels, day care centers, nursing homes, recreational
68				facilities, and other buildings with similar uses.
69		<u>"Plar</u>	ning]	Board" means the Montgomery County Planning Board of the
70		Mary	land-N	lational Capital Park and Planning Commission.
71		"Prel	<u>imina</u>	ry subdivision plan" means a preliminary subdivision plan
72		appro	ved by	the Planning Board under Chapter 50.
73		"Site	plan"	means a site plan approved by the Planning Board under
74		<u>Divis</u>	<u>ion 59-</u>	- <u>D-3.</u>
75	<u>8-49.</u>	LEE	<u>D</u> stan	dard.
76		<u>(a)</u>	Any	covered building constructed in the County, including any
77			cover	red building constructed by the County, must achieve 20 points on
78			the L	EED rating system.
79		<u>(b)</u>	The c	owner of any covered building that achieves at least 24 points on
80			the L	EED rating system is eligible for an incentive payment under the
				/ 5 \

81		Clean Energy and Environmental Design Rewards Program established
82		in Section 18A-11.
83	<u>8-50.</u>	Site plans.
84		(a) Before the Planning Board approves a site plan for a project that
85		includes a covered building, an applicant must submit the following
86		documents to the Department for approval:
87		(1) a Green Building Plan that shows how the building will
88		comply with Section 8-49(a); and
89		(2) architectural plans for the building that are certified by a
90		LEED accredited professional as likely to yield the
91		LEED points specified in the Green Building Plan.
92		(b) Before the Department issues a building permit for a covered building
93		for which a site plan is not required, the owner of the building must
94		submit the documents listed in paragraphs (a)(1) and (a)(2) to the
95		Department for approval.
96	<u>8-51.</u>	Preliminary subdivision plans.
97		Before the Planning Board approves a preliminary subdivision plan, an
98		applicant must submit a Green Building Concept Plan to the Department
99		for approval.
100	<u>8-52.</u>	Building permits.
101		The Department must approve a Green Building Plan that complies with
102		Section 8-49(a) as a condition of any building permit issued for a covered
103		building.
104		Sec. 3. Section 18A-11 is amended as follows:
105	18A-1	1. Clean Energy and Environmental Design Rewards Program.
106		(a) The Director of the Department of Environmental Protection must
107		establish a Clean Energy and Environmental Design Rewards Program.
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108		The purpose of the program is to provide financial and other incentives
109		to <u>:</u>
110		(1) consumers who choose electricity produced by renewable and
111		environmentally preferable power sources; and
112		(2) <u>building owners</u> <u>who qualify under Section</u> 8-49(b) for
113		participation in the program.
114	(b)	The Director must require each eligible [person] consumer, building
115		owner, or supplier to submit an application for any payment under this
116		program, and may take any other action necessary to administer this
117		program. The Department of Finance must take actions necessary to
118		make any payments that the Director of Environmental Protection has
119		certified are due. The County Executive must issue regulations under
120		Method (1) to implement this Section.
121	(c)	The Executive must adopt program regulations that:
122		(1) identify the types of electricity that qualify for incentives under
123		the program;
124		(2) restrict or preclude the payment of incentives for purchase of
125		otherwise qualified electricity that a consumer or supplier is
126		required to buy or produce to meet certain federal or state
127		requirements;
128		(3) specify the process to apply for, certify, and receive an award;
129		and
130		(4) include any additional program criteria, standards, and
131		procedures that are consistent with the County's energy and
132		environmental policy, which among other things may restrict the
133		location or air shed where any qualified electricity is produced.

134	(a)	The County Council must estab	lish by resolution the maximu	m amount
135		of any incentive offered and the	time period during which the	incentive
136	ند	will be offered. The maximum	m incentive may be calculated	d by total
137		payments, payment per quanti	ty of electricity bought, or	any other
138		reasonable measurement.		
139	(e)	Any incentive payment to indiv	idual applicants may be paid o	on a fiscal
140		year or calendar year basis, or at	any other convenient time.	
141	(f)	A person who submits a false	or fraudulent application, or	withholds
142		material information to obtain	a payment under this Sec	tion, has
143		committed a Class A violation.	In addition, the person must	repay the
144		County for all amounts improp	erly paid, and all accrued int	erest and
145		penalties that would apply to the	nose amounts, as if they were	overdue
146		taxes. A person who violates thi	s Section is liable for all court	costs and
147	•	expenses of the County in any	civil action brought by the (County to
148		recover any payments, interest, o	or penalty. The County may co	ollect any
149		amount due, and otherwise ent	force this Section, by any ar	propriate
150		legal action.		
151	<u>Sec.</u> 4	Applicability.		
152	<u>This</u>	Act applies to any covered	building for which a pre	<u>liminary</u>
153	<u>subdivision</u>	plan application, site plan applic	ation, or building permit appl	ication is
154	filed on or a	fter the date the Act takes effect.		•
155	Approved:			
156				
150	George I Lav	enthal, President, County Council	D :	
	George L. Lev	charai, Freshacht, County Council	Date	

LEGISLATIVE REQUEST REPORT

Bill 17-06

Buildings - Energy Efficiency and Environmental Design

DESCRIPTION:

The bill requires any new non-residential building or multi-family residential building that is at least 10,000 square feet in size to obtain at least 20 LEED (Leadership in Energy and Environmental Design) points. It also makes the owners of these types of buildings eligible for an energy tax rebate under the Clean Energy Rewards Program if a building obtains at least 24 points.

PROBLEM:

There is a need for an integrated approach to planning, design, construction, and operation of a building and its surrounding landscape that helps mitigate the environmental, economic, and social impacts of the building so that it is energy efficient, sustainable, secure, safe, cost-effective, accessible, functional, productive, and esthetically attractive.

GOALS AND OBJECTIVES:

Protect the public health and welfare by requiring an integrated approach to planning, design, construction, and operation of a covered building and its surrounding landscape that helps mitigate the environmental, economic, and social impacts of the building so that it is energy efficient, sustainable, secure, safe, cost-effective, accessible, functional, productive, and esthetically attractive.

COORDINATION:

Department of Permitting Services, Department of Public Works and Transportation, Department of Environmental Protection, and Montgomery County Planning Board.

FISCAL IMPACT:

To be requested.

ECONOMIC IMPACT:

To be requested.

EVALUATION:

To be requested.

EXPERIENCE ELSEWHERE:

To be researched.

SOURCE OF INFORMATION:

Kathleen Boucher, Senior Legislative Attorney, County Council

APPLICATION WITHIN MUNICIPALITIES:

This bill applies to any covered building that is a part of a project that requires preliminary subdivision plan approval or site plan approval from the Planning Board. It also applies to any covered building for which a building permit must be obtained from the County. The latter element of the bill applies in all municipalities except Rockville and Gaithersburg, which issue their own building permits.

PENALTIES:

See current law for penalties relating to violation of a condition of a preliminary subdivision plan approval, site plan approval, or building permit.





LEED-NC Version 2.2 Registered Project Checklist << enter project name >> << enter city, state, other details >>

			with with a
	Sustail	nable Sites	14 Points
Y	Prereq 1	Construction Activity Pollution Prevention	Required
	Credit 1	Site Selection	1
	Credit 2	Development Density & Community Connectivity	1
	Credit 3	Brownfield Redevelopment	1
	Credit 4.1	Alternative Transportation, Public Transportation Access	1
		Alternative Transportation, Bicycle Storage & Changing Rooms	1
	Credit 4.3	Alternative Transportation, Low-Emitting and Fuel-Efficient Vehicles	1
	Credit 4.4		1
	Credit 5.1	Site Development, Protect of Restore Habitat	1
	Credit 5.2	Site Development, Maximize Open Space	1
	Credit 6.1	Stormwater Design, Quantity Control	1
	Credit 6.2	Stormwater Design, Quality Control	1
	Credit 7.1	Heat Island Effect, Non-Roof	1
	Credit 7.2	Heat Island Effect, Roof	1
	Credit 8	Light Pollution Reduction	1
Yes ? No			
	Water	Efficiency	5 Points
			Un Oillia
	Credit 1.1	Water Efficient Landscaping, Reduce by 50%	1
	Credit 1.2	Water Efficient Landscaping, No Potable Use or No Irrigation	1
	Credit 2	Innovative Wastewater Technologies	1
	Credit 3.1	Water Use Reduction, 20% Reduction	1
	Credit 3.2	Water Use Reduction, 30% Reduction	1
Yes ? No			
	Enerav	& Atmosphere	:17 Points
(A) (C) (A)			
<u>Y</u>	D	-	
	Prereq 1	Fundamental Commissioning of the Building Energy Systems	Required
<u> </u>	Prereq 1 Prereq 2	Fundamental Commissioning of the Building Energy Systems Minimum Energy Performance	Required Required
Y Y	Prereq 2 Prereq 3	Minimum Energy Performance Fundamental Refrigerant Management	
	Prereq 2 Prereq 3 Credit 1	Minimum Energy Performance Fundamental Refrigerant Management Optimize Energy Performance	Required
X	Prereq 2 Prereq 3 Credit 1 Credit 2	Minimum Energy Performance Fundamental Refrigerant Management Optimize Energy Performance On-Site Renewable Energy	Required Required
	Prereq 2 Prereq 3 Credit 1 Credit 2 Credit 3	Minimum Energy Performance Fundamental Refrigerant Management Optimize Energy Performance On-Site Renewable Energy Enhanced Commissioning	Required Required 1 to 10
X	Prereq 2 Prereq 3 Credit 1 Credit 2 Credit 3 Credit 4	Minimum Energy Performance Fundamental Refrigerant Management Optimize Energy Performance On-Site Renewable Energy Enhanced Commissioning Enhanced Refrigerant Management	Required Required 1 to 10
Y	Prereq 2 Prereq 3 Credit 1 Credit 2 Credit 3	Minimum Energy Performance Fundamental Refrigerant Management Optimize Energy Performance On-Site Renewable Energy Enhanced Commissioning	Required Required 1 to 10

continued...



			Materia	als & Resources	13 Points
÷Υ	1		Prereq 1	Storage & Collection of Recyclables	Poquired
	1	T	Credit 1.1	Building Reuse, Maintain 75% of Existing Walls, Floors & Roof	Required
	Г	T	Credit 1.2	Building Reuse, Maintain 100% of Existing Walls, Floors & Roof	1
一			Credit 1.3	Building Reuse, Maintain 50% of Interior Non-Structural Elements	1
			Credit 2.1		1
			Credit 2.2	·	1
┢			Credit 3.1	Materials Reuse, 5%	1.
	<u> </u>		Credit 3.2	•	1
		T	Credit 4.1	Recycled Content, 10% (post-consumer + ½ pre-consumer)	1
一	 	T	Credit 4.2	Recycled Content, 20% (post-consumer + ½ pre-consumer)	1
			Credit 5.1	Regional Materials, 10% Extracted, Processed & Manufactured Region	1
			Credit 5.2	Regional Materials, 20% Extracted, Processed & Manufactured Regions	1
-		 	Credit 6	Rapidly Renewable Materials	1
			Credit 7	Certified Wood	, ,
Yes	?	No	1 0.00	Octanica Wood	1
	· -				
	<u> </u>		: Indoor	Environmental Quality	15 Points
Ý			Prereq 1	Minimum IAQ Performance	Required
Y			Prereq 2	Environmental Tobacco Smoke (ETS) Control	Required
			Credit 1	Outdoor Air Delivery Monitoring	1
			Credit 2	Increased Ventilation	1
			Credit 3.1	Construction IAQ Management Plan, During Construction	1
			Credit 3.2		1
			Credit 4.1	Low-Emitting Materials, Adhesives & Sealants	1
			Credit 4.2	Low-Emitting Materials, Paints & Coatings	1
			Credit 4.3		1
			Credit 4.4	Low-Emitting Materials, Composite Wood & Agrifiber Products	1
			Credit 5	Indoor Chemical & Pollutant Source Control	1
			Credit 6.1	Controllability of Systems, Lighting	1
			Credit 6.2	Controllability of Systems, Thermal Comfort	1
			Credit 7.1	Thermal Comfort, Design	1
			Credit 7.2	Thermal Comfort, Verification	1
			Credit 8.1	Daylight & Views, Daylight 75% of Spaces	1
			Credit 8.2	•	1
Yes	?	No	'	•	
			Innova	tion & Design Process	5 Points
Г			Credit 1.1	Innovation in Design: Provide Specific Title	
		\vdash		Innovation in Design: Provide Specific Title	1
 			Credit 1.3	Innovation in Design: Provide Specific Title	1
H			Credit 1.4	-	1
$\vdash \vdash$			Credit 1.4 Credit 2	LEED® Accredited Professional	1
<u></u>	?	<u> </u>	Oreun Z	LEED Accredited Professional	1
Yes	, 	No			
			Project	Totals (pre-certification estimates)	69 Points